AMENDMENTS TO THE CLAIMS

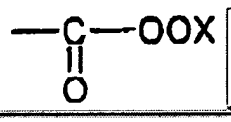
This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

15. (Currently amended) Polyorganosiloxanes (POSs) comprising siloxane units having the following formula (I):

$$R_a E_b G_c SiO_{\frac{4-(a+b+c)}{2}} \quad (I)$$

wherein:

- a + b + c is from 0 to 3,
- a, b and c are from 0 to 3,
- R, which is identical or different, is a monovalent hydrocarbonaceous group,
- E, which is identical or different, is a monovalent functional substituent selected from the group consisting of (cyclo)aliphatic hydrocarbonaceous groups, aromatic hydrocarbonaceous groups and heterocyclic hydrocarbonaceous groups, carrying one or more ~~peroxo(-O-O-)~~ functional group Fpo of the following formula,  , wherein X is hydrogen, a halogen atom, or a cation forming a salt with the acyl peroxide anions,

- G, which is identical or different, is a functional substituent comprising one or more Fpo-stabilizing functional group Fstab, which are identical to or different from one another, capable of bonding via weak bonds with the Fpo functional group,
- the concentration {Fpo} of Fpo functional groups, expressed by the ratio $\{\text{Fpo}\} = \frac{\textit{Fpo number}}{\textit{Total number of silicon atoms in the POS}}$, is greater than 0, and
- the concentration {T and/or Q}, as mol%, of units selected from the group consisting of T units and Q units, is from 0 to 20, T units being defined as siloxane units wherein a+b+c=1, and Q units being defined as siloxane units wherein a+b+c=0.

16. (Previously presented) Polyorganosiloxanes according to claim 15, wherein R is a linear C_1-C_4 alkyl group, a branched C_1-C_4 alkyl group, a phenyl group, a xylyl group or a tolyl group.

17. (Previously presented) Polyorganosiloxanes according to claim 15, whereat least one E substituent further comprises one or more Fpo-stabilizing functional group Fstab, which are identical to or different from one another, and capable of bonding via weak bonds with the Fpo functional group.

18. (Previously presented) Polyorganosiloxanes according to claim 15, wherein $0.1 \leq \{\text{Fpo}\} \leq 0.6$.

19. (Previously presented) Polyorganosiloxanes according to claim 15, wherein $0 \leq \{\text{T and/or Q}\} \leq 8$.

20. (Canceled)

21. (Canceled)

22. (Canceled)

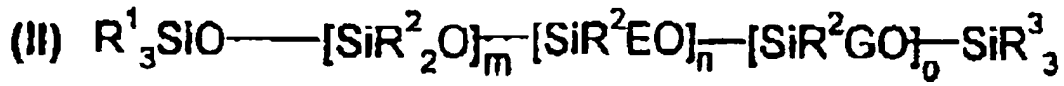
23. (Currently amended) Polyorganosiloxanes according to claim 15 ~~22~~, wherein X is an elements from columns Ia and IIA of the Periodic Table.

24. (Previously presented) Polyorganosiloxanes according to claim 15, wherein Fstab generates weak bonds (hydrogen bonds) with Fpo functional groups, and is selected from the group consisting of:

- functional units comprising nitrogen, oxygen, fluorine, sulfur or phosphorus,
- cationic units,
- chelating units comprising one or more ether or amine functional group,
- phosphonate chelating units, and
- sulfonate chelating units.

25. (Previously presented) Polyorganosiloxanes according to claim 15, wherein Fstab generates weak bonds (hydrogen bonds) with Fpo functional groups, and is selected from the group consisting of carboxylic units, carboxylate units, amide units, imide units, sulfonamide units, hydroxyl units, alkoxy units, amine units, organofluorinated units, and quaternary ammoniums units.

26. (Previously presented) Polyorganosiloxanes according to claim 15, of the following formula (II):



wherein

- R^1 and R^3, which are identical or different, are hydrogen, a hydroxyl or a monovalent a hydrocarbonaceous group,
- R^2, which is identical or different, is hydrogen, hydroxyl, or a monovalent a hydrocarbonaceous group,
- $2 \leq m + n + o \leq 300$,
- $0 \leq m \leq 200$,
- $0 \leq n \leq 50$, and
- $0 \leq o \leq 50$.

27. (Previously presented) Polyorganosiloxanes according to claim 26, wherein

- $3 \leq m + n + o \leq 50$,
- $1 \leq m \leq 100$,
- $1 \leq n \leq 10$, and
- $1 \leq o \leq 10$.

28. (Previously presented) Polyorganosiloxanes according to claim 26, wherein

- $5 \leq m + n + o \leq 20$,
- $1 \leq m \leq 10$,
- $2 \leq n \leq 4$, and
- $2 \leq o \leq 4$.

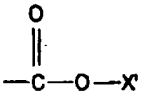
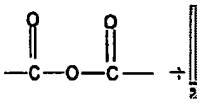
29. (Previously presented) Polyorganosiloxanes according to claim 26, wherein:

- R^1 and R^3 are a C_1-C_3 alkyl,
- R^2 is a C1-C3 alkyl, and
- E carries Fpo and Fstab functional groups.

30. (Previously presented) Polyorganosiloxanes according to claim 29, wherein R^1, R^2 and R^3 are methyl groups.

31. (Canceled)

32. (Currently amended) A process for the preparation of the polyorganosiloxanes according to claim 15, essentially consisting in oxidizing polysiloxane precursors of the polyorganosiloxanes according to claim 15, comprising a step of oxidizing with an agent selected from the group consisting of H_2O_2, O_2, O_3 and their mixtures, the polysiloxane precursors being distinguished from the polyorganosiloxanes ~~comprising peroxo groups according to claim 15~~ in that they comprise one or more F'po functional groups which are Fpo functional group precursors and are composed of:

- carboxyl residues of formula  wherein X' is hydrogen, or an aliphatic, alicyclic, aromatic, or heterocyclic monovalent hydrocarbonaceous radical comprising hydrogen and carbon atoms, and, optionally, one or more heteroatom, said radical being, optionally, substituted, or
- acid anhydride residues of formula 

~~aldehyde residues, or~~

~~oxide residues comprising sulfur, phosphorus, silicon or boron~~.

33. (Canceled)

34. (Currently amended) A process according to claim 32 ~~33~~, wherein the polysiloxanes precursors carry

- anhydride groups, the oxidation being carried out with H_2O_2 in the presence of a strong base catalyst, or
- carboxylic groups, the oxidation being carried out with H_2O_2 in the presence of a strong acid catalyst.

35. (Previously presented) A process according to 32, wherein polysiloxanes precursors are used with a molar purity greater than or equal to 90%.

36. (Previously presented) A process according to 32, wherein polysiloxanes precursors are used with a molar purity greater than or equal to 95%.

37. (Previously presented) Polysiloxanes precursors as defined in claim 32.

38. (Previously presented) A dental composition, comprising polyorganosiloxanes according to claim 15.

39. (Previously presented) A detergent composition, comprising polyorganosiloxanes according to claim 15.

40. (New) A process according to claim 34, wherein the polysiloxanes precursors carry succinic anhydride functions linked to the silicon atoms by a $-(CH2)_3-$ group.